## FIGURE 1

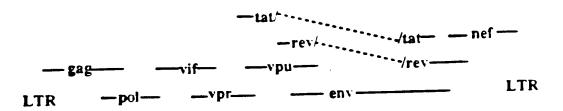


Figure 2

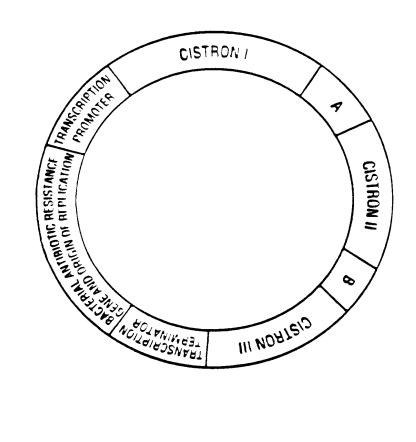
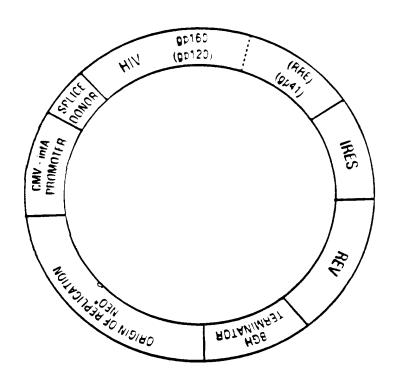
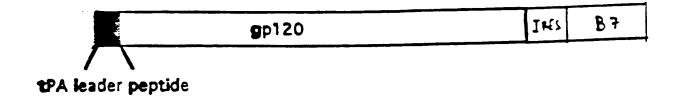


Figure 3



4/27

# tPA-gp120 (V1Jns-tPA-gp120)



gp160/rev dicistronic construct
(V1Jns-gp160/IRES/rev/SD)



HIV gag /rev Dicistronic Construct Schematic

p55 <i>gag</i>	RRE	IRES	rev
	لـــــــــــــــــــــــــــــــــــــ		

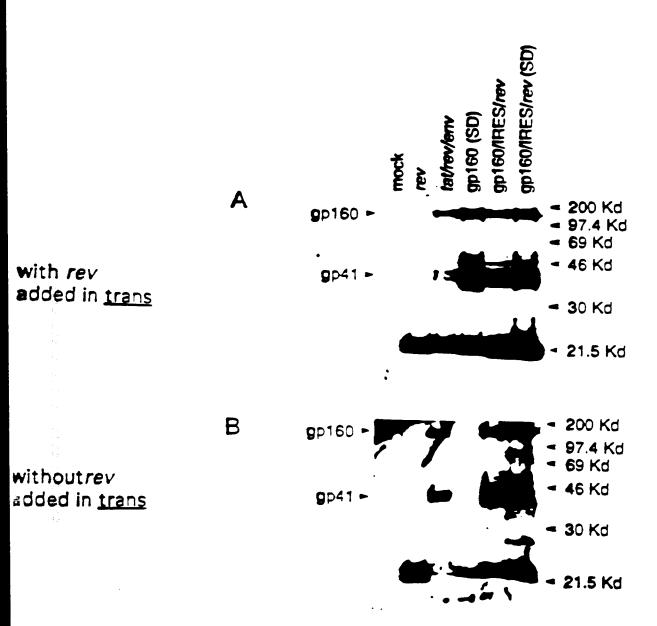


Figure 6: VIJ.Sequence, SEQ. ID:12:

TOGOGOGOTT CGGTGATGAC GGTGAAAACC TOTGACACAT GCAGCTCCCG GAGACGGTCA CAGCTTGTCT GTAAGCGGAT GCCGGGAGCA GACAAGCCCG 51 TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG 101 CGGCATCAGA GCAGATTGTA CTGAGAGTGC ACCATATGCG GTGTGALATA 151 CCGCACAGAT GCGTAAGGAG AAAATACCGC ATCAGATTGG CTATTGGCCA 201 TTGCATACGT TGTATCCATA TCATAATATG TACATTTATA TTGGCTCATG 251 TOCANCATTA COGCONTGTT GACATTGATT ATTGACTAGT TATTAATAGT 301 AATCAATTAC GGGGTCATTA GTTCATAGCC CATATATGGA GTTCCGCGTT 351 ACATAACTTA CGGTAAATGG CCCGCCTGGC TGACCGCCCA ACGACCCCCG 401 451 CCCATTGACG TCAATAATGA CGTATGTTCC CATAGTAACG CCAATAGGGA CTTTCCATTG ACGTCAATGG GTGGAGTATT TACGGTAAAC TGCCCACTTG 501 GCAGTACATO AAGTGTATCA TATGCCAAGT ACGCCCCCTA TTGACGTCAA 551 TGACGGTAAA TGGCCCGCCT GGCATTATGC CCAGTACATG ACCTTATGGG €01 ACTITICATAC TIGGCAGIAC ATCIACGIAT TAGTCATOGO TATTACCATO 651 GTGATGCGGT TTTGGCAGTA CATCAATGGG CGTGGATAGC GGTTTGACTC ACGGGGATTT CCAAGTCTCC ACCCCATTGA CGTCAATGGG AGTTTGTTTT 751 GGCACCAAAA TCAACGGGAC TTTCCAAAAT GTCGTAACAA CTCCGCCCCA 801 TIGACGCAAA TGGGCGGTAG GCGTGTACGG TGGGAGGTCI ATATAAGCAG B51 AGCTCGTTTA GTGAACCGTC AGATCGCCTG GAGACGCCAT CCACGCTGTT 901 TTGACCTCCA TAGAAGACAC CGGGACCGAT CCAGCCTCCG CGGCCGGGAA 951 CGGTGCATTG GAACGCGGAT TCCCCGTGCC AAGAGTGACG TAAGTACCGC 1001 CTATAGAGTC TATAGGCCCA CCCCCTTGGC TTCTTATGCA TGCTATACTG 1051 TITTTGGCTT GGGGTCTATA CACCCCCGCT TCCTCATGTT ATAGGTGATG 1101 1151 GTATAGCTTA GCCTATAGGT GTGGGTTATT GACCATTATT GACCACTCCC CTATTGGTGA CGATACTTTC CATTACTAAT CCATAACATG GCTCTTTGCC 1201

### Figure 6 (continued, p2/4)

1251 ACAACTOTOT TTATTGGGTA TATGCCAATA CACTGTCCTT CAGAGACTGA 1301 CACGGACTOT GTATTTTTAC AGGATGGGGT CTCATTTATT ATTIACALAT TCACATATAC AACACCACCG TCCCCAGTGC CCGCAGTTTT TATTAAACAT 1351 1401 AACGTGGGAT CTCCACGCGA ATCTCGGGTA CGTGTTCCGG ACATGGGCTC 1451 TTCTCCGGTA GCGGCGGAGC TTCTACATCC GAGCCCTGCT CCCATGCCTC 1501 CAGCGACTCA TGGTCGCTCG GCAGCTCCTT GCTCCTAACA GTGGAGGCCA GACTTAGGCA CAGCACGATG CCCACCACCA CCAGTGTGCC GCACAAGGCC 1551 GTGGCGGTAG GGTATGTGTC TGAAAATGAG CTCGGGGAGC GGGCTTGCAC 1601 CGCTGACGCA TTTGGAAGAC TTAAGGCAGC GGCAGAAGAA GATGCAGGCA 1651 1701 GCTGAGTIGI TGTGTTCTGA TAAGAGTCAG AGGTAACTCC CGTTGCGGTG 1751 CTGTTAACGG TGGAGGGCAG TGTAGTCTGA GCAGTACTCG TTGCTGCCGC GOGOGOCACO AGACATAATA GOTGACAGAO TAACAGAOTG TTCCTTTOCA 1801 1851 TGGGTCTTTT CTGCAGTCAC CGTCCTTAG ATCTGCTGTG CCTTCTAGTT 1901 GCCAGCCATO TGTTGTTTGC CCCTCCCCG TGCCTTCCTT GACCCTGGAA 1951 GGTGCCACTC CCACTGTCCT TTCCTAATAA AATGAGGAAA TTGCATCGCA 2001 2051 GCAAGGGGGA GGATTGGGAA GACAATAGCA GGCATGCTGG GGATGCGGTG 2101 GGCTCTATGG GTACCCAGGT GCTGAAGAAT TGACCCGGTT CCTCCTGGGC 2151 CAGAAAGAAG CAGGCACATC CCCTTCTCTG TGACACACCC TGTCCACGCC 2201 CCTGGTTCTT AGTTCCAGCC CCACTCATAG GACACTCATA GCTCAGGAGG 2251 GCTCCGCCTT CAATCCCACC CGCTAAAGTA CTTGGAGCGG TCTCTCCCTC 2301 CCTCATCAGC CCACCAAACC AAACCTAGCC TCCAAGAGTG GGAAGAAATT 2351 AAAGCAAGAT AGGCTATTAA GTGCAGAGGG AGAGAAAATG CCTCCAACAT 2401 GTGAGGAAGT AATGAGAGAA ATCATAGAAT TTCTTCCGCT TCCTCGCTCA 2451 CTGACTCGCT GCGCTCGGTC GTTCGGCTGC GGCGAGCGGT ATCAGCTCAC Figure 6 (continued, p3/4)

2501 TCARAGGOGG TRATACGGTT ATCCACAGAR TCAGGGGGATA ACGCAGGRAR 2551 GAACATGTGA GCAAAAGGCC AGCAAAAGGC CAGGAACCGT AAAAAGGCCG 2601 CGTTGCTGGC GTTTTTCCAT AGGCTCCGCC CCCCTGACGA GCATCACALA 2651 AATCGACGCT CAAGTCAGAG GTGGCGAAAC CCGACAGGAC TATALAGATA 2701 CCAGGCGTTT CCCCCTGGAA GCTCCCTCGT GCGCTCTCCT GTTCCGACCC 2751 TGCCGCTTAC CGGATACCTG TCCGCCTTTC TCCCTTCGGG AAGCGTGGCG 2801 CTTTCTCAAT GCTCACGCTG TAGGTATCTC AGTTCGGTGT AGGTCGTTCG 2851 CTCCAAGCTG GGCTGTGTGC ACGAACCCCC CGTTCAGCCC GACCGCTGCG 2901 COTTATOOGS TAACTATOGT CTTGAGTOCA ACCOGGTAAG ACACGACTTA 2951 TOGOCACTGG CAGCAGOCAC TGGTAACAGG ATTAGCAGAG CGAGGTATGT 3001 AGGCGGTGCT ACAGAGTTCT TGAAGTGGTG GCCTAACTAC GGCTACACTA 3051 GAAGGACAGT ATTTGGTATO TGCGCTCTGC TGAAGCCAGT TACCTTCGGA 3101 AAAAGAGTTG GTAGCTCTTG ATCCGGCAAA CAAACCACCG CTGGTAGCGG 3151 TGGTTTTTT GTTTGCAAGC AGCAGATTAC GCGCAGAAAA AAAGGATCTC 3201 AAGAAGATOO TTTGATOTTT TOTACGGGGT CTGACGCTCA GTGGAACGAA 3251 AACTCACGTT AAGGGATTTT GGTCATGAGA TTATCAAAAA GGATCTTCAC 3301 CTAGATCCTT TTAAATTAAA AATGAAGTTT TAAATCAATC TAAAGTATAT 3351 ATGAGTALAC TTGGTCTGAC AGTTACCAAT GCTTAATCAG TGAGGCACCT 3401 ATCTCAGCGA TCTGTCTATT TCGTTCATCC ATAGTTGCCT GACTCCCCGT 3451 CGTGTAGATA ACTACGATAC GGGAGGGCTT ACCATCTGGC CCCAGTGCTG 3501 CANTGATACC GCGAGACCCA CGCTCACCGG CTCCAGATTT ATCAGCAATA 3551 AACCAGCCAG CCGGAAGGGC CGAGCGCAGA AGTGGTCCTG CAACTTTATC 3601 CGCCTCCATC CAGTCTATTA ATTGTTGCCG GGAAGCTAGA GTAAGTAGTT 3651 CGCCAGTTAA TAGTTTGCGC AACGTTGTTG CCATTGCTAC AGGCATCGTG 3701 GTGTCACGCT CGTCGTTTGG TATGGCTTCA TTCAGCTCCG GTTCCCAACG

# Figure 6 (continued, p4/4)

3751	ATCAAGGCGA	GTTACATGAT	CCCCCATGTI	GTGCAAAAAA	GCGGTTAGCT
3801	CCTTCGGTCC	TCCGATCGTT	GTCAGAAGTA	AGTTGGCCGC	AGTGTTATCA
3851	CTCATGGTTA				
3901			GTGAGTACTC		
3951					ACGGGATAAT
4001					GAAAACGTTC
4051					TCCAGTTCGA
4101					TACTTTCACC
4151					CANANAAGGG
4201					CTTTTTCAAT
4251					TTTATATATA
4301					A CATTTOCCO
					DOSATTACO E
4403			aggcccttt		

Figure 7: VlJneo Sequence, SEQ. ID:14:

1 TOGOGOGTTT CGGTGATGAC GGTGAAAACC TCTGACACAT GCAGCTCCCG GAGACGGTCA CAGCTTGTCT GTAAGCGGAT GCCGGGAGCA GACAAGCCCG TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG 101 CGGCATCAGA GCAGATTGTA CTGAGAGTGC ACCATATGCG GTGTGAAATA 151 CCGCACAGAT GCGTAAGGAG AAAATACCGC ATCAGATTGG CTATTGGCCA 201 TTGCATACGT TGTATCCATA TCATAATATG TACATTTATA TTGGCTCATG 251 TOCAACATTA COGCOATGTT GACATTGATT ATTGACTAGT TATTAATAGT 301 ARTCARTIAC GGGGTCATTA GTTCATAGCC CATATATGGA GTTCCGCGTT 351 ACATAACTIA EGGTAAATGG CCCGCCTGGC TGACCGCCCA ACGACCCCCG CCCATTGACG TCAATAATGA CGTATGTTCC CATAGTAACG CCAATAGGGA 451 501 CTTTCCATTG ACGTCAATGG GTGGAGTATT TACGGTAAAC TGCCCACTTG GCASTACATO AAGTGTATCA TATGCCAAGT ACGCCCCTA TTGACGTCAA 551 TGACGSTARA TGGCCCGCCT GGCATTATGC CCASTACATG ACCTTATGGG €01 ACTITICITAC TIGGIAGIAC ATCIACGIAI TAGICATOGI TATIACCATO 651 701 GTGATGCGGT TTTGGCAGTA CATCAATGGG CGTGGATAGC GGTTTGACTC ACGGGGATTT CCAAGTCTCC ACCCCATTGA CGTCAATGGG AGTTTGTTTT 751 GGCACCAAAA TCAACGGGAC TTTCCAAAAT GTCGTAACAA CTCCGCCCCA 801 TTGACGCAAA TGGGCGGTAG GCGTGTACGG TGGGAGGTCT ATATAAGCAG 851 AGCTCGTTTA GTGAACCGTC AGATCGCCTG GAGACGCCAT CCACGCTGTT 901 TTGACCTCCA TAGAAGACAC CGGGACCGAT CCAGCCTCCG CGGCCGGGAA 951 1001 CGGTGCATTG GAACGCGGAT TCCCCGTGCC AAGAGTGACG TAAGTACCGC 1051 CTATAGAGTO TATAGGCCCA CCCCCTTGGC TTCTTATGCA TGCTATACTG 1101 TTTTTGGCTT GGGGTCTATA CACCCCCGCT TCCTCATGTT ATAGGTGATG 1151 GTATAGCTTA GCCTATAGGT GTGGGTTATT GACCATTATT GACCACTCCC Figure 7 (continued, p2/4)

1201 CTATTGGTGA CGATACTTTC CATTACTAAT CCATAACATG GCTCTTTGCC 1251 ACAACTOTOT TTATTGGCTA TATGCCAATA CACTGTCCTT CAGAGACTGA 1301 CACGGACTCT GTATTTTTAC AGGATGGGGT CTCATTTATT ATTTACALLT 1351 TCACATATAC AACACCACCG TCCCCAGTGC CCGCAGTTTT TATTALACAT 1401 AACGTGGGAT CTCCACGCGA ATCTCGGGTA CGTGTTCCGG ACATGGGCTC 1451 TTCTCCGGTA GCGGCGGAGC TTCTACATCC GAGCCCTGCT CCCATGCCTC 1501 CAGOGACTCA TEGTOGOTOG GCAGOTOCTT GOTOCTAACA GTGGAGGCCA 1551 GACTTAGGCA CAGCACGATG CCCACCACCA CCAGTGTGCC GCACAAGGCC GTGGCGGTAG GGTATGTGTC TGAAAATGAG CTCGGGGAGC GGGCTTGCAC 1601 1651 CGCTGACGCA TTTGGAAGAC TTAAGGCAGC GGCAGAAGAA GATGCAGGCA 1701 GCTGAGTTGT TGTGTTCTGA TAAGAGTCAG AGGTAACTCC CGTTGCGGTG 1751 CTGTTAACGG TGGAGGGCAG TGTAGTCTGA GCAGTACTCG TTGCTGCCGC 1801 GOGOGOCACO AGACATARTA GOTGACAGAC TARCAGACTG TTCCTTTCCA 1851 TGGGTCTTTT CTGCAGTCAC CGTCCTTAG ATCTGCTGTG CCTTCTAGTT 1901 GCCAGCCATC TGTTGTTTGC CCCTCCCCG TGCCTTCCTT GACCCTGGAA 1951 GGTGCCACTC CCACTGTCCT TTCCTAATAA AATGAGGAAA TTGCATCGCA 2001 TIGTOTGAGT AGGTGTCATT CTATTCTGGG GGGTGGGGTG GGGCAGCACA 2051 GCAAGGGGGA GGATTGGGAA GACAATAGCA GGCATGCTGG GGATGCGGTG 2101 GGCTCTATGG GTACCCAGGT GCTGAAGAAT TGACCCGGTT CCTCCTGGGC 2151 CAGAAAGAAG CAGGCACATC CCCTTCTCTG TGACACACCC TGTCCACGCC CCTGGTTCTT AGTTCCAGCC CCACTCATAG GACACTCATA GCTCAGGAGG 2201 GCTCCGCCTT CAATCCCACC CGCTAAAGTA CTTGGAGCGG TCTCTCCCTC 2251 2301 CCTCATCAGC CCACCAAACC AAACCTAGCC TCCAAGAGTG GGAAGAAATT 2351 AAAGCAAGAT AGGCTATTAA GTGCAGAGGG AGAGAAAATG CCTCCAACAT 2401 GTGAGGAAGT AATGAGAGAA ATCATAGAAT TTCTTCCGCT TCCTCGCTCA Figure 7 (continued, p3/4)

2451 CTGACTCGCT GCGCTCGGTC GTTCGGCTGC GGCGAGCGGT ATCAGCTCAC 2501 TCAAAGGCGG TAATACGGTT ATCCACAGAA TCAGGGGATA ACGCAGGAAA 2551 GAACATGTGA GCAAAAGGCC AGCAAAAGGC CAGGAACCGT AAAAAGGCCG 2601 CGTTGCTGGC GTTTTTCCAT AGGCTCCGCC CCCCTGACGA GCATCACAAA 2651 AATCGACGCT CAAGTCAGAG GTGGCGAAAC CCGACAGGAC TATAAAGATA 2701 CCAGGCGTTT CCCCCTGGAA GCTCCCTCGT GCGCTCTCCT GTTCCGACCC TGCCGCTTAC CGGATACCTG TCCGCCTTTC TCCCTTCGGG AAGCGTGGCG 2751 CTTTCTCAAT GCTCACGCTG TAGGTATCTC AGTTCGGTGT AGGTCGTTCG 2801 CTCCAAGCTG GGCTGTGTGC ACGAACCCCC CGTTCAGCCC GACCGCTGCG 2851 COTTATOOGG TAACTATOGT CTTGAGTOCA ACCOGGTAAG ACAOGACTTA 2901 TOGOCACTES CASCAGOCAS TESTAACASS ATTAGCAGAS CGASSTATST 2951 AGGCGGTGCT ACAGAGTTCT TGAAGTGGTG GCCTAACTAC GGCTACACTA 3001 GAAGGACAGT ATTTGGTATC TGCGCTCTGC TGAAGCCAGT TACCTTCGGA 3051 ALALBAGITG GTAGCTCTTG ATCCGGCAAA CAAACCACCG CTGGTAGCGG 3101 TGGTTTTTT GTTTGCAAGC AGCAGATTAC GCGCAGAAAA AAAGGATCTC 3151 AAGAAGATOO TTTGATOTTI TOTACGGGGT CTGACGCTCA GTGGAACGAA 3201 AACTCACGTT AAGGGATTTT GGTCATGAGA TTATCAAAAA GGATCTTCAC 3251 CTAGATECTT TTAAATTAAA AATGAAGTTT TAAATCAATE TAAAGTATAT 3301 3351 ATGAGTAAAC TTGGTCTGAC AGTTACCAAT GCTTAATCAG TGAGGCACCT 3401 ATCTCAGCGA TCTGTCTATT TCGTTCATCC ATAGTTGCCT GACTCCGGGG 3451 GGGGGGGGG CTGAGGTCTG CCTCGTGAAG AAGGTGTTGC TGACTCATAC CAGGCCTGAA TCGCCCCATC ATCCAGCCAG AAAGTGAGGG AGCCACGGTT 3501 GATGAGAGCT TTGTTGTAGG TGGACCAGTT GGTGATTTTG AACTTTTGCT 3551 3601 TTGCCACGGA ACGGTCTGCG TTGTCGGGAA GATGCGTGAT CTGATCCTTC 3651 AACTCAGCAA AAGTTCGATT TATTCAACAA AGCCGCCGTC CCGTCAAGTC Figure 7 (continued, p4/4)

3701 AGOGTAATGO TOTGOCAGTG TTACAACCAA TTAACCAATT CTGATTAGAA 3751 AAACTCATCG AGCATCAAAT GAAACTGCAA TTTATTCATA TCAGGATTAT 3801 CANTACCATA TTTTTGARRA AGCCGTTTCT GTARTGARGG AGRARACTCR 3851 CCGAGGCAGT TCCATAGGAT GGCAAGATCC TGGTATCGGT CTGCGATTCC 3901 GACTOGTOCA ACATOAATAC AACOTATTAA TTTCCCCTCG TCAAAAATAA 3951 GGTTATCAAG TGAGAAATCA CCATGAGTGA CGACTGAATC CGGTGAGAAT 4001 GGCAAAAGCT TATGCATTTC TTTCCAGACT TGTTCAACAG GCCAGCCATT ACCOTOCTON TONANTONO TOCCATONNO CANACOCTIN TICATIOCIS 4051 ATTGCGCCTG AGCGAGACGA AATACGCGAT CGCTGTTAAA AGGACAATTA 4101 4151 CAAACAGGAA TOGAATGOAA COGGOGGAGG AACACTGOCA GOGOATGAAC 4201 AATATITICA COTGAATOAG GATATTOTTO TAATACOTGG AATGOTGTTT 4251 TOCCGGGGAT CGCAGTGGTG AGTAACCATG CATCATCAGG AGTACGGATA AAATGOTTGA TGGTOGGAAG AGGCATAAAT TCCGTCAGOO AGTTTAGTOT 4301 4351 GACCATOTCA TOTGTAACAT CATTGGCAAC GOTACOTTTG CCATGTTTCA 4401 GAAACAACTO TGGCGCATCG GGCTTCCCAT ACAATCGATA GATTGTCGCA CCTGATTGCC CGACATTATC GCGAGCCCAT TTATACCCAT ATAAATCAGC 4451 ATCCATGTTG GAATTTAATC GCGGCCTCGA GCAAGACGTT TCCCGTTGAA 4501 4551 TATGGCTCAT AACACCCCTT GTATTACTGT TTATGTAAGC AGACAGTTTT 4601 ATTGTTCATG ATGATATATT TTTATCTTGT GCAATGTAAC ATCAGAGATT 4651 TTGAGACACA ACGTGGCTTT CCCCCCCCC CCATTATTGA AGCATTTATC 4701 AGGGTTATTG TCTCATGAGC GGATACATAT TTGAATGTAT TTAGAAAAAT 4751 ANACANATAG GGGTTCCGCG CACATTTCCC CGANANGTGC CACCTGACGT 4801 CTANGANACC ATTATTATCA TGACATTANC CTATANANAT AGGCGTATCA 4851 CGAGGCCCTT TCGTC

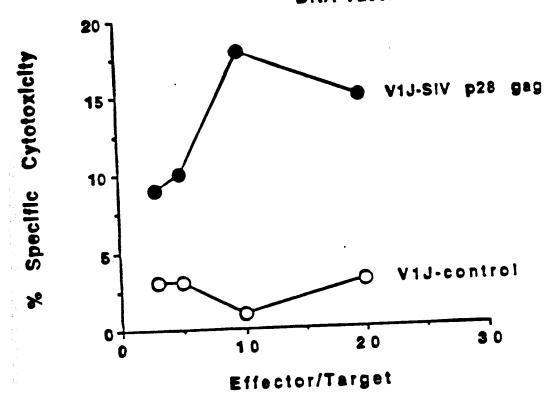
Figure 8: CM/intaBGH Sequence, SEQ. ID:13:

1 ATTGGCTATT GGCCATTGCA TACGTTGTAT CCATATCATA ATATGTACAT TTATATTGGC TCATGTCCAA CATTACCGCC ATGTTGACAT TGATTATTGA 51 CTAGTTATTA ATAGTAATCA ATTACGGGGT CATTAGTTCA TAGCCCATAT 101 ATGGAGTTCC GCGTTACATA ACTTACGGTA AATGGCCCGC CTGGCTGACC 151 201 GCCCAACGAC CCCCGCCCAT TGACGTCAAT AATGACGTAT GTTCCCATAG 251 TAACGCCAAT AGGGACTTTC CATTGACGTC AATGGGTGGA GTATTTACGG 301 TARACTGCCC ACTTGGCAGT ACATCAAGTG TATCATATGC CAAGTACGCC 351 COCTATTGAD GTCAATGADG GTAAATGGDD CGCCTGGDAT TATGCCCAGT ACATGACCTT ATGGGACTTT CCTACTTGGC AGTACATCTA CGTATTAGTC 401 ATCGCIATIA CCATGGTGAT GCGCTTTTGG CAGTACATCA ATGGGCGTGG 451 ATABOGETTI GACTOACGES GATTTOCAAS TOTOCACCO ATTGACGTOA 501 ATGGGAGTTI GTTTTGGCAC CAAAATCAAC GGGACTTTCC AAAATGTCGT 551 601 AACAACTOOG COCCATTGAC GCAAATGGGC GGTAGGCGTG TACGGTGGGA GGTCTATATA AGCAGAGCTC GTTTAGTGAA CCGTCAGATC GCCTGGAGAC 651 GCCATCCACG CTGTTTTGAC CTCCATAGAA GACACCGGGA CCGATCCAGC 701 CTCCGCGGCC GGGAACGGTG CATTGGAACG CGGATTCCCC GTGCCAAGAG 751 BOI TGACGTAAGT ACCGCCTATA GAGTCTATAG GCCCACCCCC TTGGCTTCTT ATGCATGCTA TACTGTTTTT GGCTTGGGGT CTATACACCC CCGCTTCCTC 851 ATGTTATAGG TGATGGTATA GCTTAGCCTA TAGGTGTGGG TTATTGACCA 901 TTATTGACCA CTCCCCTATT GGTGACGATA CTTTCCATTA CTAATCCATA 951 1001 ACATGGCTCT TTGCCACAAC TCTCTTTATT GGCTATATGC CAATACACTG 1051 TCCTTCAGAG ACTGACACGG ACTCTGTATT TTTACAGGAT GGGGTCTCAT 1101 TTATTATTA CANATTCACA TATACAACAC CACCGTCCCC AGTGCCCGCA 1151 GTTTTATTA AACATAACGT GGGATCTCCA CGCGAATCTC GGGTACGTGT 1201 TCCGGACATG GGCTCTTCTC CGGTAGCGGC GGAGCTTCTA CATCCGAGCC Figure 8 (continued, p2/2)

1251 CTGCTCCCAT GCCTCCAGCG ACTCATGGTC GCTCGGCAGC TCCTTGCTCC 1301 TAACAGTGGA GGCCAGACTT AGGCACAGCA CGATGCCCAC CACCACCAGT 1351 GTGCCGCACA AGGCCGTGGC GGTAGGGTAT GTGTCTGAAA ATGAGCTCGG 1401 GGAGCGGGCT TGCACCGCTG ACGCATTTGG AAGACTTAAG GCAGCGGCAG 1451 AAGAAGATGC AGGCAGCTGA GTTGTTGTGT TCTGATAAGA GTCAGAGGTA 1501 ACTCCCGTTG CGGTGCTGTT AACGGTGGAG GGCAGTGTAG TCTGAGCAGT ACTOSTIGCT GCCGCGCGCG CCACCAGACA TAATAGCTGA CAGACTAACA 1551 GACTGTTCCT TTCCATGGGT CTTTTCTGCA GTCACCGTCC TTAGATCTG 1601 CTGTGCCTTC TAGTTGCCAG CCATCTGTTG TTTGCCCCTC CCCCGTGCCT 1651 TOOTTGACCO TEGRASETEC CACTOCCACT ETCOTTTCCT AATAAATGA GGAAATTGCA TCGCATTGTC TGAGTAGGTG TCATTCTATT CTGGGGGGGTG 1751 1801 GGGTGGGGCA GCACAGCAAG GGGGAGGATT GGGAAGACAA TAGCAGGCAT 1851 GCTGGGGATG CGGTGGGCTC TATGGGTACC CAGGTGCTGA AGAATTGACC 1901 CGGTTCCTCC TGGGCCAGAA AGAAGCAGGC ACATCCCCTT CTCTGTGACA CACCOTGTOC ACGCCCCTGG TTCTTAGTTC CAGCCCCACT CATAGGACAC 1951 2001 TCATAGCTCA GGAGGGCTCC GCCTTCAATC CCACCCGCTA AAGTACTTGG 2051 AGOGGTOTOT COCTOCOTOR TORGCOCACO ARROCARACO TAGOCTOCAR 2101 GAGTGGGAAG AAATTAAAGC AAGATAGGCT ATTAAGTGCA GAGGGAGAGA 2151 AAATGCCTCC AACATGTGAG GAAGTAATGA GAGAAATCAT AGAATTC

Figure 0

Primary CTL Generation by V1J-SIV p28 gag
DNA Vaccination



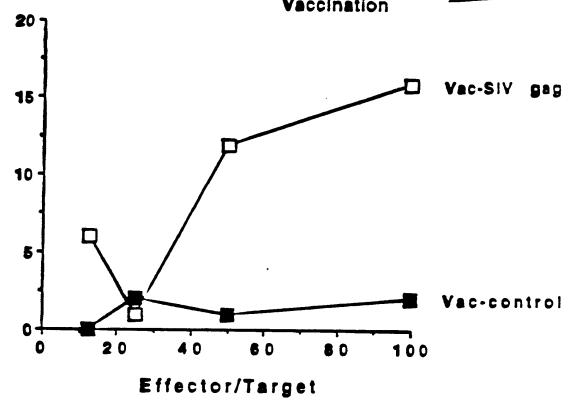
17/27

Figure 10

Specific Cytotoxicity

\*

Primary CTL Generation by Vaccinia-SIV gag
Vaccination



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#### FIGURE 11, VIR SEQUENCE, SEQ.ID:100:

#### 1 GATATTGG CTATTGGCCA

251 TTGCATACGT TGTATCCATA TCATAATATG TACATTTATA TTGGCTCATG 301 TCCAACATTA CCGCCATGTT GACATTGATT ATTGACTAGT TATTAATAGT 351 AATCAATTAC GGGGTCATTA GTTCATAGCC CATATATGGA GTTCCGCGTT 401 ACATAACTTA COGTAAATGG CCCGCCTGGC TGACCGCCCA ACGACCCCCG 451 CCCATTGACG TCAATAATGA CGTATGTTCC CATAGTAACG CCAATAGGGA 501 CTTTCCATTG ACGTCAATGG GTGGAGTATT TACGGTAAAC TGCCCACTTG 551 GCASTACATO AAGTGTATCA TATGCCAAGT ACGCCCCCTA TTGACGTCAA 601 TGACGGTARA TGGCCCGCCT GGCATTATGC CCAGTACATG ACCTTATGGG 651 ACTITICATA TIGGOAGTAC ATCTACGTAT TAGTOATOGO TATTACCATO 701 GTGATGCGGT TTTGGCAGTA CATCAATGGG CGTGGATAGC GGTTTGACTC 751 ACGGGGATTT CCAAGTOTOC ACCCCATTGA CGTCAATGGG AGTTTGTTTT BIL GGCACCAAAA TCAACGGGAC TTTCCAAAAT GTCGTAACAA CTCCGCCCCA 851 TTGACGCAAA TGGGCGGTAG GCGTGTACGG TGGGAGGTCT ATATAAGCAG 911 AGCTCGTTTA GTGAACCGTC AGATCGCCTG GAGACGCCAT CCACGCTGTT 951 TYGRECTECH TAGARGREAC COGGREGAT CONGCCTCCG CGGCCGGGRA 1001 COGTOCATTO GARCGOGGAT TOCCCGTGCC AAGAGTGACG TAAGTACCGC 1051 CTATAGAGTO TATAGGOCCA COCCOTTOGO TTOTTATGCA TGCTATACTG 1101 TTTTTGGCTT GGGGTCTATA CACCCCCGCT TCCTCATGTT ATAGGTGATG 1151 GTATAGCTTA GCCTATAGGT GTGGGTTATT GACCATTATT GACCACTCCC 1201 CTATTGGTGA CGATACTTTC CATTACTAAT CCATAACATG GCTCTTTGCC 1251 ACANCTOTOT TTATTGGCTA TATGCCAATA CACTGTCCTT CAGAGACTGA 1301 CACGGACTET GTATTTTAC AGGATGOGGT ETCATTTATT ATTTACAAAT 1351 TCACATATAC AACACCACCG TCCCCAGTGC ECGCAGTTTT TATTAAACAT Figure 11 (continued, p2/3)

1401 AACGTGGGAT CTCCACGCGA ATCTCGGGTA CGTGTTCCGG ACATGGGCTC 1451 TTCTCCGGTA GCGGCGGAGC TTCTACATCC GAGCCCTGCT CCCATGCCTC 1501 CAGOGACTCA TOGTOGCTCG GCAGCTCCTT GCTCCTAACA GTGGAGGCCA 1551 GACTTAGGCA CAGCACGATG CCCACCACCA CCAGTGTGCC GCACAAGGCC 1601 GTGGCGGTAG GGTATGTGTC TGAAAATGAG CTCGGGGAGC GGGCTTGCAC 1651 CGCTGACGCA TTTGGAAGAC TTAAGGCAGC GGCAGAAGAA GATGCAGGCA 1701 GCTGAGTTGT TGTGTTCTGA TAAGAGTCAG AGGTAACTCC CGTTGCGGTG 1751 CTGTTAACGG TGGAGGGCAG TGTAGTCTGA GCAGTACTCG TTGCTGCCGC 1801 GOGGGCCACC AGACATAATA GOTGACAGAC TAACAGACTG TTCCTTTCCA 1851 TGGGTCTTTT CTGCAGTCAC CGTCCTTAG ATCTGCTGTG CCTTCTAGTT 1901 GCCAGCCATC TGTTGTTTGC CCCTCCCCCG TGCCTTCCTT GACCCTGGAA 1951 GGTGCCACTC CCACTGTCCT TTCCTAATAA AATGAGGAAA TTGCATCGCA 2051 GCAAGGGGA GGATTGGGAA GACAATAGCA GGCATGCTGG GGATGCGGTG 2101 GGCTCTATGG GTAC GGCCGCAGCGGCC GTACCCAGGT GCTGAAGAAT TGACCCGGTT CCTCGACCCGT AAAAAGGCCG 2601 COTTGOTGGO GTTTTTCCAT AGGOTCCGCC CCCCTGACGA GCATCACAAA 2651 ANTOGROGOT CARGTORGAG GTGGCGARAC CCGRORGGAC TATARAGATA 2701 CCAGGCGTTT CCCCCTGGAA GCTCCCTCGT GCGCTCTCCT GTTCCGACCC 2751 TGCCGCTTAC CGGATACCTG TCCGCCTTTC TCCCTTCGGG AAGCGTGGCG 2801 CTTTCTCAAT GCTCACGCTG TAGGTATCTC AGTTCGGTGT AGGTCGTTCG 2851 CTCCAAGCTG OGCTGTGTGC ACGAACCCCC CGTTCAGCCC GACCGCTGCG 2901 CCTTATCCGG TAACTATCGT CTTGAGTCCA ACCCGGTAAG ACACGACTTA

2951 TOGOCACTOG CAGCAGCCAC TOGTAACAGG ATTAGCAGAG CGAGGTATGT

3001 AGGCGGTGCT ACAGAGTTCT TGAAGTGGTG GCCTAACTAC GGCTACACTA

Figure 11 (continued, p3/3)

3051 GAAGGACAGT ATTTGGTATC TGCGCTCTGC TGAAGCCAGT TACCTTCGGA
3101 AAAAGAGTTG GTAGCTCTTG ATCCGGCAAA CAAACCACCG CTGGTAGCGG

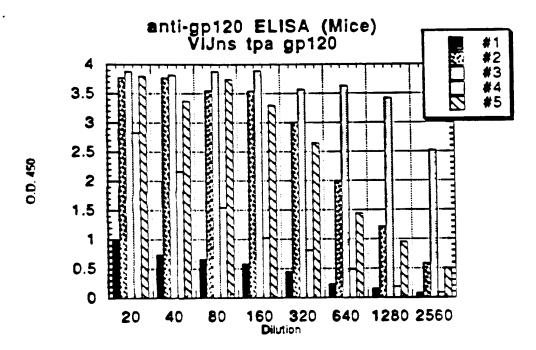
3151 TOGTTTTTTT GTTTGCAAGC AGCAGATTAC GCGCAGAAAA AAAGGATCTC

3201 AAGAAGATCC TYTGATCTTT TCTACGTGATCC CGTAATGC TCTGCCAGTG
TTACAACCAA TTAACCAATT CTGATTAGAA

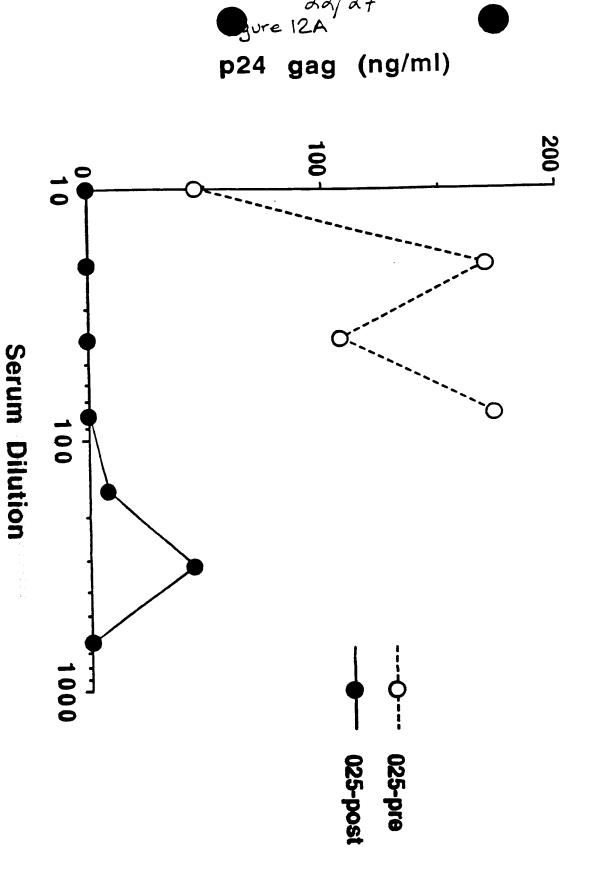
3751 AAACTCATCG AGCATCAAAT GAAACTGCAA TITATTCATA TCAGGATTAT 3801 CANTACCATA TTTTTGARAR AGCCGTTTCT GTARTGARGG AGRARACTCA 3851 CCGAGGCAGT TCCATAGGAT GGCAAGATCC TGGTATCGGT CTGCGATTCC 3911 GACTOGTOCA ACATOAATAC AACOTATTAA TTTCCCCTCG TCAAAAATAA B951 GOTTATORAS TGAGRARATOR CORTGAGTOR CGROTGRATO CGGTGRGRAT 4001 GGCAAAAGCT TATGCATTTC TTTCCAGACT TGTTCAACAG GCCAGCCATT 4051 ACCOTOGICA TOARRATORO TOGORITORRO CARROCGITA TICATIOGIS 4101 ATTGCGCCTG AGCGAGACGA AATACGCGAT CGCTGTTAAA AGGACAATTA 4151 CARACAGGAR TOGRATGORR COGGOGORGO ARCACTGOCA GOGORTORRO 42:1 AATATTTTCA COTGAATCAG GATATTCTTC TAATACCTGG AATGCTGTTT 4251 TOCCGGGGAT CGCAGTGGTG AGTARCATG CATCATCAGG AGTACGGATA 4301 AAATGOTTGA TGGTCGGAAG AGGCATAAAT TCCGTCAGCC AGTTTAGTCT 4351 GACCATOTOA TOTGTAACAT CATTGGCAAC GOTACOTTTG CCATGTTTCA 4401 GARREARCTE TEGESCATES ESCTTECCAT ACARTESATA GATTETESCA 4451 COTGATTGCC CGACATTATC GCGAGCCCAT TTATACCCAT ATAAATCAGC 4501 ATCCATGTTG GAATITAATC GCGGCCTCGA GCAAGACGTT TCCCGTTGAA 4551 TATOGCTCAT AACACCCCTT GTATTACTGT TTATGTAAGC AGACAGTTTT

4601 ATTGTTCATG ATGATATATT TITATCTTGT GCAATGTAAC ATCAGAGATT

4651 TTGAGACACA ACGTGGCTTT CC

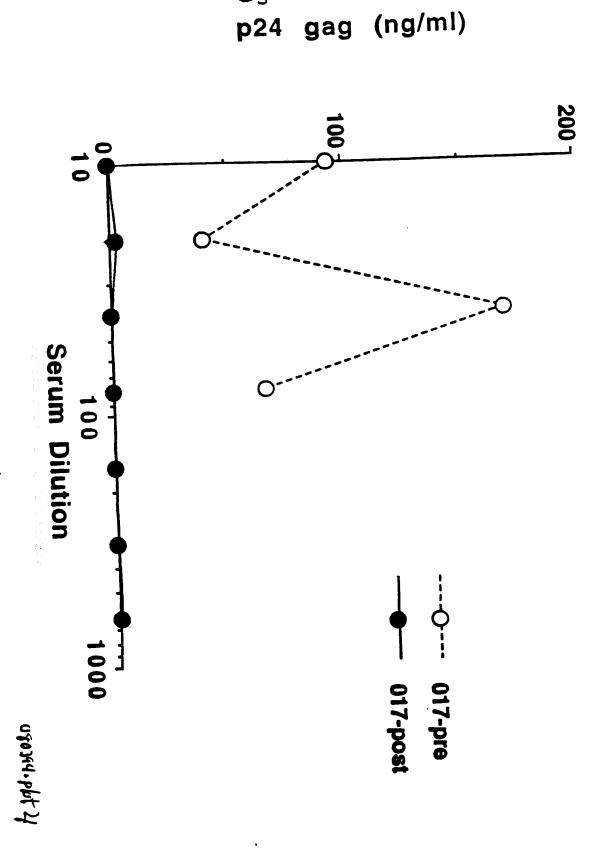


tPA-gp120 DNA Immunized African Green Monkeys HIV MN Neutralization by Serum from



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tPA-gp120 DNA Immunized African Green Monkeys HIV MN Neutralization by Serum from



one 12B



Mouse #

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(Naive)

3500

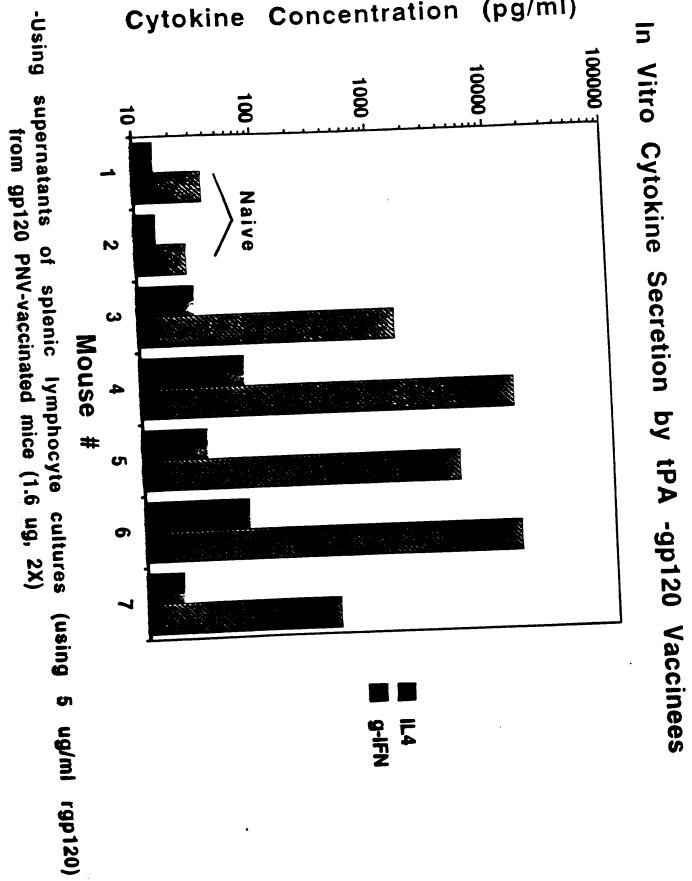
<10

**^10** 

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FIGURE 14

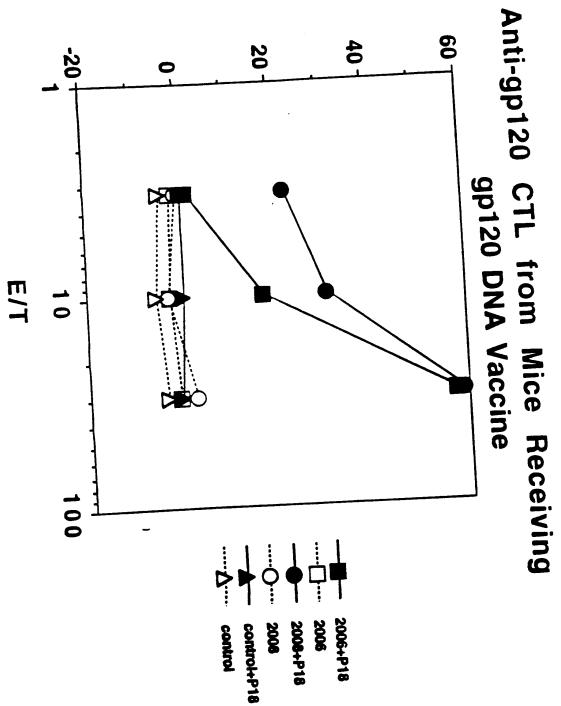
(pg/ml) Concentration



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FIGURE 15

% Specific Lysis



40,5

FIGURE 16

% Specific Lysis

